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<u>Abstract</u>

Disclosed are methods for making microwave circuits using thickfilm components, the thickfilm components including: a first, multi-layer thickfilm dielectric deposited on a ground plane; a thickfilm conductor deposited on the first thickfilm dielectric; a second, multi-layer thickfilm dielectric deposited on the first dielectric and conductor to encapsulate the conductor; a thickfilm ground shield layer deposited over the first and second dielectrics; and thickfilm resistors deposited in close proximity to the first and second dielectrics.